

Length, Malaysia, NML-SIRIM (National Metrology Laboratory, SIRIM Berhad)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					
Class	Instrument or Artifact	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	NMI Internal Identifier
Laser radiations	Stabilized laser of the mise en pratique, absolute frequency	Optical beat frequency	633	633	nm			0.024	MHz	2	95%	No	1
Laser radiations	Stabilized laser of the mise en pratique, absolute frequency	Optical beat frequency	543	543	nm			0.3	MHz	2	95%	No	2
Line standards	Line scale, line spacing L	Laser interferometer with CCD camera	0.1	800	mm			Q[300, 0.5L], L in mm, values range from 300 nm to 500 nm	nm	2	95%	No	7
Laser radiations	Other stabilized laser, absolute frequency	Optical beat frequency	633	633	nm			0.6	MHz	2	95%	No	3
Laser radiations	Other stabilized laser, absolute frequency	Optical beat frequency	543	543	nm			0.6	MHz	2	95%	No	4
End standards	Gauge block, central length L	Interferometry, exact fractions	0.5	100	mm			Q[30, 0.30L], L in mm, values range from 30 nm to 43 nm	nm	2	95%	No	5
End standards	Gauge block, central length L	Mechanical comparison to gauge block	125	500	mm			Q[364, 0.978L], L in mm, values range from 384 nm to 610 nm	nm	2	95%	No	6